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JPRS 14886

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HEAT TRANSFER FROM GLASS IN THE PARISON
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Trans. of Glastechnische Berichte (West Germany) 1963,
v. 36, no. 7, p. 253-258.

DESCRIPTORS: *Glass, Heat transfer, Molding.

TT-64-12350

I. Trier, W.
II. Straub, F.
III. BGIRA-590
IV. British Glass Industry
Research Association,
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1278471

(Materials--Ceramics, TT, v. 11, no. 7)

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HEAT TRANSFER BETWEEN FLAME AND GLASS
IN GLASS MELTING TANKS. July 63.
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DESCRIPTORS: Heat transfers, Flames, Glass.
Furnaces.

(Materials--Ceramics, TT, v. 11, no. 1)

TT-63-22445

I. Trier, W.
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Isotopes of Low Atomic Number, by A. Trier,
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SPANISH, rpt, Examen de Reacciones (n,p) (n,Gamma)
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trones Provenientes de la Reaccion D(d,n)H³ a E -
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No. 10, 1955, pp. 330-331.

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HEAT LOSS FROM GLASS IN THE BLANK MOLD
(Waermentabgabe des Glases in der Vorform). 22p (foreign
text included) 15 refs.

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Trick, Wolfgang.
ON THE DEVELOPMENT OF FLAMES (Über die
Ausbildung von Flammen). [1962] [10]p. (foreign text
includ[un]g refs.)
Oden[un]gton, SLA 5a, 10

1. Trick, W.

Trans. of Glaschu[un]gische Ber[un]ichte [West Germany]
1956, v. 29, no. 11, p. 426-428.

DESCRIPTORS: *Flames, Gases, Combustion, Gas
flow, Turbulence, Jets, Jet mixing flow, Flame
propagation, *Gases, Melting.

The processes which contribute decisively to the for-
mation of flames are discussed. A mathematical con-
ception and tying up of the individual fundamental
magnitudes is today possible to a certain extent only in
flames which burn like jets. Pertinent English and
American works are referred to. (Author)

(Materials--Containers, TT, v. 8, no. 6)

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Trier, Wolfgang.
TEMPERATURE AND STRAIN CONDITIONS IN
CRACKING OF GLASS (Temperatur- und Spannungs-
verhältnisse beim Absprengen von Glas). [1962]
[10]p. (foreign text included).

Order from SLA \$6.10 62-14498

Trans. of Glastechnische Ber[ichte] (West Germany)
1954 v. 27, no. 5, p. 164-166.

DESCRIPTORS: *Glass. *Fracture(Mechanics). Tem-
perature. Cooling.

The nature of the cracking process is explained by
simple physical considerations. The observation from
practice, that the cracking process is made more dif-
ficult with thin wall thicknesses, with poorly cooled
glasses and with small tubes, finds its deeper reason
thereby. (Author)

(Materials--Ceramics, TT, v. 8, no. 5)

I. Trier, W.

222655

Office of Technical Services

62-14252

Trier, W.

VISCOSITY DISTRIBUTION AND FLOW OF GLASS IN
PREFORMERS. [1962] 33p. 20 refs.

Order from SLA \$11.60

62-14252

Trans. of Glastechnische Berichte (West Germany)
1959, v. 32K, p. 11/17-11/25.DESCRIPTORS: *Glass, *Viscosity, Distribution,
Molding, Bubbles, Deformation, Cooling, Configuration,
Liquids, Solids, Melting, Drawing (Machine processing),
Production, Compressed air, Blowers, *Ceramic
materials.An apparatus for measuring the viscosity distribution
in the glass in a preformer is described. A fine steel
needle forced through the glass leaves behind a fine
bubble trace of well-defined shape in the glass. The
viscosity distribution can be derived from the deforma-
(Materials-Ceramics, TT, v. 9, no. 5) (over)

- I. Trier, W.
- II. Title: International
Congress on Glass (no. 5)
- III. Title: Internationale
Glascongress (no. 5)

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Trier, Wolfgang

TEMPERATURE MEASUREMENTS IN THE GLASS
BATH OF TANK FURNACES (Temperaturmessungen
im Glasbad von Wannenöfen). [1962] [29]p.

(foreign text included) 8 refs.

Order from SLA \$2.60

62-16397

Trans. of Glastechnische Berichte (West Germany)
1953, v. 26, no. 1, p. 5-12.

DESCRIPTORS: *Glass, Melting, Temperature,
Measurement, Test equipment, Gas flow, Convection,
Pyrometers, Sheets, Tests.

A survey is given of the most important temperature
measurements that have been made so far in the glass
bath of tank furnaces. After discussing the testing ap-
paratus, the results of the measurements are criti-
cally examined. It is tried to interpret some of the
(Materials--Ceramics, TT, v. 8, no. 9) (over)

62-16397

1. Title: Tank furnaces
1. Trier, W.

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I. Trier, W.

Trier, Wolfgang.
TEMPERATURE DISTRIBUTION AND HEAT FLOW
IN GLASS IN THE GATHERING MOLD OF HOLLOW
GLASS MACHINES. 28 Feb 61, 12p. (12 figs. omitted)
9 refs.

Order from SLA \$1.60

62-14222

Trans. of Glastechnische Berichte (West Germany)
1960, v. 33, no. 12, p. 449-456.

DESCRIPTORS: *Glass, Cooling, Heat transfer,
Viscosity, Molding, Machines.

C226213

Office of Technical Services

By means of a novel puncture method the cooling of a
45 mm thick glass cylinder at about 1100°C in a
modified gathering mold has been studied under condi-
tions comparable to those existing in the machine.
The viscosity distribution was measured in green
glass and white glass and the temperature distribution
(Materials--Ceramics, TT, v. 8, no. 10) (over)

Development of Glassmelting Pot Furnaces, by Rudolf
Gunther, Wolfgang Tripp, Karl Heing Theissl, 39 pp.

GERMAN, per, Harsenachische Berichte, Vol XXX,
No 7, 1957, pp 308-318.

SLA 59-10926

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Trier, Wolfgang.
PHOTOGRAPHING FLAMES (Fotografieren von
Flammen). Enlarged Version of Lecture at Symposium
on Glass Technology (no. 33) Hamburg, 17 Mar 59.
[1961] [17] p. 3 refs.
Order from SLA ml\$2.40, ph\$3.30 61-10693

Trans. of Glastechnische Berichte (West Germany)
1960, v. 33, no. 4, p. 127-132.

Flames in glass furnaces can be photographed with
relatively simple aids. When working rapidly it is
sufficient to have a protective screen for the camera.
Color films produce more contrasty pictures than
black-and-white films, especially when a light blue
filter is used. The exposure times ought to be as brief
as possible. Rapidly streaming flames, such as oil
flames, require exposures of 1/1000 second and less
in order to prevent blurring due to movement. The
lens opening should be selected in accordance with the
nature and the brightness of the flame. (Author)
(Materials--Ceramics, TT, v. 5, no. 10)

1. Flames--Photographic
analysis
2. Glass--Production
- I. Trier, W.
- II. Title: Symposium...

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MOISTURE. [1963]. BGIRA Tr. 63/17.
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D. G. G., 5 Apr 62.

DESCRIPTORS: *Glass, *Materials, Processing,
*Moisture.

(Materials--Ceramics, TT, v. 10, no. 4)

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I. Trier, W.
II. BGIRA-Tr/63/17
III. BGIRA-550
IV. British Glass Industry
Research Association

Office of Technical Services

Trier, Wolfgang.
HEAT FLUX IN GLASS MOLDS (Wärmefluss in
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Trans. of unidentified German language mono.,
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DESCRIPTORS: *Molding, Molding materials, *Glass,
*Heat transfer, Stability, High temperature research,
Cooling, Surfaces, Walls, Containers.

(Materials--Ceramics, TT, v. 7, no. 8)

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I. Trier, W.

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Swelling of a Liquid Surface Under the Influence of
Ultrasound, by M. Kornfeld and V. I. Triers, 3 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXVI, No 12,
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Embassy, Bonn, CERP Section D (VI), 1 Mar 1961.

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EXM Labor's New Trade-Union Style, by
Guenther Triesch.

GERMAN, np, Rheinischer Merkur, Koblenz, 5 Jul
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*JPRS/SF-2759/SPECIAL

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chmann and Schmitt, 7 p.

Miller, E. C. Parthenius, A. C.
Schmitt, Report on, 4 May 1950.

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The Interpretation of Elevated Alkaline Phosphatase
Levels of the Serum. The Significance of 5-Nucleo-
tidase and of the Iso-Enzyme Spectrum, by A. J.
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V. Trif, 4 pp.

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by M. Trifol', 6 pp.

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pp 27, 28. 9683149

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Discussion, by E. Moracci, A. Trifilo

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Polorographic Determination of Sulphur in Organic
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In the Hours of the Historic Flight, by Am.
T. J. O'Connell, 22 pp.

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Prasenjit Basu, tr. 1964. 128p
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Trans. of mono. [Redkumel'nye Elementy, Moscow,
1960, 131p].

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D. N. Trifonov

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A New Method for the Calculation of Statistical
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E. V. Trifonov, S. L. Yampol'skii.
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QUESTIONS, from, Tikhonov, G. I. Aerologicheskoy
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Polymorphe Hochtemperaturumwandlung von Bariumtitanat

Izvest. Akad. Nauk SSSR, Ser. Fiz. , 22, No. 12, 1462-1464
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Some Peculiarities in the Band Shape of $\mathbf{P}$
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3. dated 10/10/50, and is classified "Secret".
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5. author to the Director, Central Intelligence Agency
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